

JULY, 1944

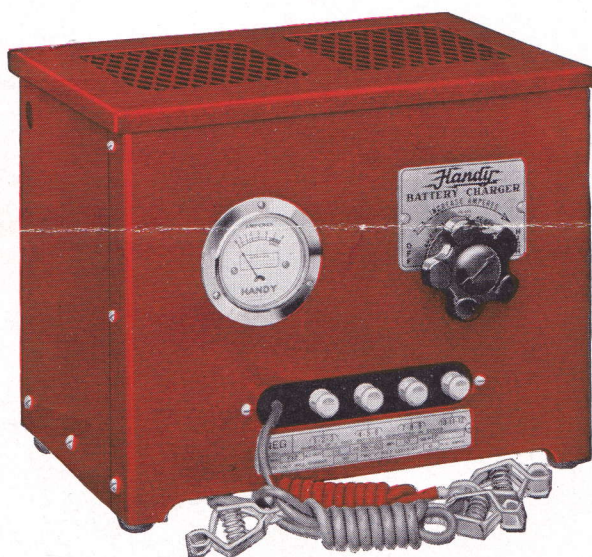
BULLETIN No. 320  
Supersedes Bull. No. 316

# *Handy* BATTERY CHARGERS

## NEW IMPROVED MODELS

HEAVY DUTY GARAGE TYPE — GUARANTEED TWO YEARS

Sizes: 1 to 24 Batteries — Wall and Rack Types



Model F12 50 OR 60 CYCLE 115 VOLTS **\$28.00** LESS BULB

COMPLETE WITH CLIPS AS PICTURED

For 115 and 230 volt interchangeable 60 cycle, add \$5.00-  
For 115 and 230 volt interchangeable 50 cycle, add 8.00-

One to Twelve Batteries at 6 Amperes

Has four clip-on terminals for coarse adjustment of charging rate, and a seven point fine control dial. Each coarse step is regulated by the fine control dial. This control within a control provides 28 different settings and permits fine regulation of the charging rate.

### SALIENT FEATURES

1. Trouble proof; no moving parts to be lubricated, adjusted, repaired or lost.
2. Small investment, large quick profits.
3. Charges all radio, automobile and lighting batteries.
4. Is furnished for any standard alternating current circuit.
5. Automatic in operation; will operate regardless of how many times current goes on and off without discharging the battery.
6. The transformer is designed to give longest life to the bulbs which means low cost of operation over a long period of time.
7. Easy to operate. Anyone can charge batteries with the *Handy* Chargers.
8. Precision Ammeters.
9. *Handy* Charger will operate perfectly with any make of rectifier bulb, either mercury vapor or argon gas type.
10. Well ventilated case resulting in cool operation and long life.



Model F6 50 OR 60 CYCLE 115 VOLTS **\$24.00** LESS BULB

COMPLETE WITH CLIPS AS PICTURED

For 115 and 230 volt interchangeable 60 cycle, add \$3.00  
For 115 and 230 volt interchangeable 50 cycle, add 6.00

To Charge One to Six Batteries at 6 Amperes

Has two clip-on terminals for coarse adjustment of charging rate, and a seven point fine control dial. Each coarse step is regulated by the fine control dial. This control within a control provides 14 different settings and permits fine regulation of the charging rate.

SEE BACK OF SHEET FOR COMPLETE LIST OF SIZES AND TYPES.

# BALDOR ELECTRIC COMPANY

4357 Duncan Ave.

Apparatus Department

St. Louis, Mo.



# Handy FULL WAVE CHARGERS



## ← Model F12-24

### CAPACITY:

12 batteries at 12 amperes, or 24 batteries at 6 amperes; or some batteries at each rate.

### PRICE:

50-60 Cycle, 115 Volt ..... ~~\$69.00~~

50-60 Cycle, 115/230 Volt ~~75.00~~

### WEIGHTS:

115 Volt—Net 95 Lbs. Shipping 113 Lbs.

115/230 Volt—Net 120 Lbs. Shipping 138 Lbs.

## Model F6-12

### CAPACITY:

6 batteries at 12 amperes or 12 batteries at 6 amperes; or some batteries at each rate.

### PRICE:

50-60 Cycle, 115/230 Volt ~~\$50.00~~

### WEIGHTS:

Net 94 Lbs. Shipping 99 Lbs.

MODELS F6-12 AND F12-24 CHARGERS REQUIRE TWO BULBS, 6 AMPERES SIZE.

"HANDY" full wave chargers provide a variety of charging rates. They are ideally suited for the operator who wants to charge some batteries at one rate and others at a different rate. Those batteries connected to the charging line at either end may be charged at any selected rate of from 2 to 6 amperes. Those batteries connected to the center terminals are automatically charged at the combined rate of the two end lines. Each end line is independent of the other and has separate provision for adjusting the charging rate of that line. Therefore, one end line may be used to charge at one rate and the other

end line at a different rate. As the batteries connected to the center line are charged at the accumulated rate of the two lines nearly any desired charging rate is obtainable. For example if one end line is set to charge at 2 amperes and the other at 6 amperes the center line will be charged at 8 amperes. Thus three separate lines of batteries would be charged at the same time at rates of 2 amperes, 6 amperes, and 8 amperes.

The model F12-24 charger has 28 steps of current adjustment for each end line—the model F6-12 has 14, which permit very fine adjustment of the charging rate.

Charging batteries with "HANDY" is highly profitable because a "HANDY" Charger takes very little electric current. Figure your profits by using the following table.

NUMBER OF BATTERIES ON CHARGE	COST OF CURRENT			
	5c Per K. W. H.	4c Per K. W. H.	3c Per K. W. H.	2c Per K. W. H.
1	.15	.12	.087	.058
2	.095	.074	.055	.037
3	.077	.06	.045	.03
4	.068	.053	.04	.026
5	.060	.048	.036	.024
6	.057	.045	.034	.023
7	.054	.043	.032	.022
8	.053	.042	.031	.021
9	.051	.04	.03	.021
10	.049	.039	.029	.019
11	.048	.038	.029	.019
12	.048	.037	.028	.019

The foregoing table shows the cost of charging six-volt storage batteries with a model F12 "HANDY" Charger. The figures are based on an 18-hour charge at six amperes. If the charging time is different from this the cost per battery would be correspondingly changed. Our test to obtain the above-listed figures was made with our F12 charger. Other sizes of "HANDY" chargers have the same high efficiency.



F1, for charging one six volt storage battery at a six ampere rate or 12 volts at a 3 ampere rate.

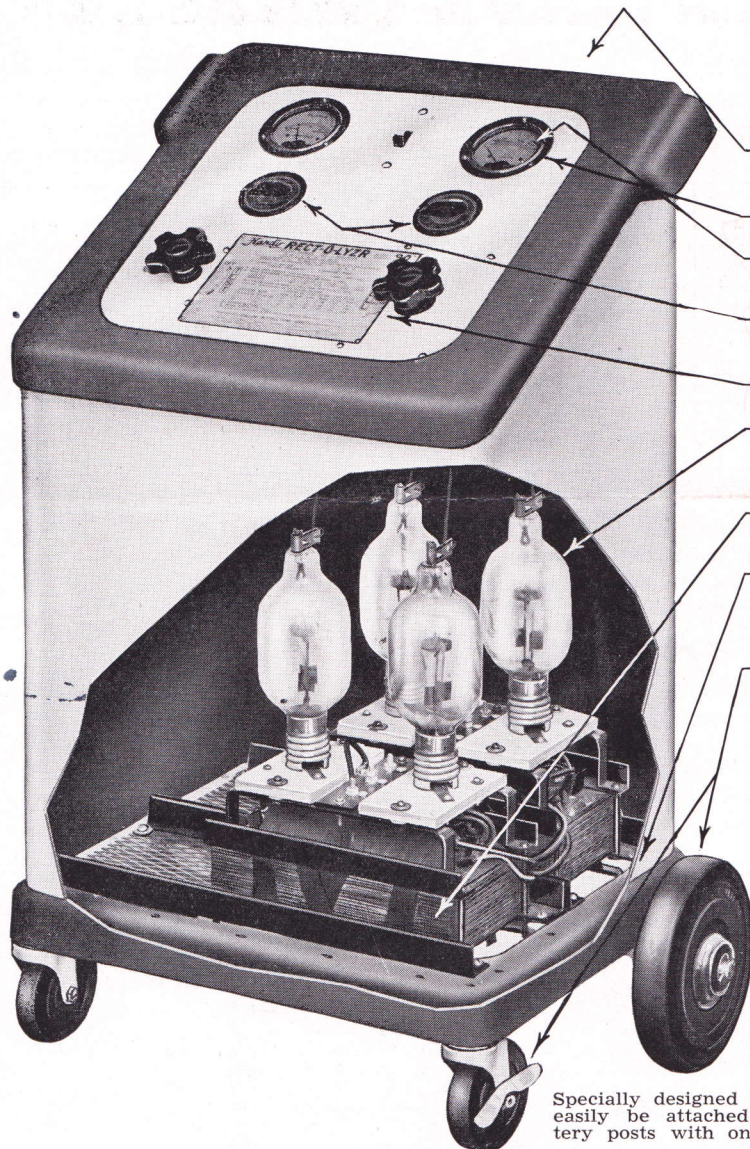
~~\$14.00~~

LESS BULB



# RECT-O-LYZR IS SCIENTIFICALLY CORRECT

## ONLY RECT-O-LYZR HAS ALL THESE OUTSTANDING FEATURES



Modern in design.

Long A. C. and D. C. leads come out of back, leaving panel entirely visible from any angle.

Meters are first grade D'Arsonval type.

Progress of charge clearly shown on meter during the charge.

Charges quickly yet safely because of automatic tapered rates.

Accurately tests each battery cell.

Bulbs rectify perfectly. No A. C. backleak to heat battery. Bulbs require no fan to cool them. RECT-O-LYZR has no moving parts.

Oversize transformers assure long life. Guaranteed two years.

Substantially built. Frame is of cast iron; case of steel. Weighs 210 pounds net. Overall dimensions 21½" wide, 38" high, 18" deep.

Portable. Large rubber wheels 8" diameter on back and swivel casters on front make it easy to move unit over rough surfaces.

Specially designed clips can easily be attached to battery posts with one hand.

## HANDY RECT-O-LYZR MODEL 90

**ACCURATE BATTERY TEST.** The Rect-O-Lyzer tests each battery cell individually. It includes an adjustable battery discharger so that batteries of various sizes may be discharged at the precise recommended rate. Condition of each cell is clearly indicated on D'Arsonval type voltmeter by turning cell switch to positions 1, 2, and 3.

**FAST BUT SAFE CHARGE.** Rect-O-Lyzer has two time switches each controlling two bulbs, which results in an automatic tapered charging rate in accordance with recommendations of leading battery manufacturers. The initial starting rate of 70 to 80 amperes is automatically reduced to about 45 amperes after a short period of charge according to the time switch setting. This lower rate, (45 amperes), continues until the battery is substan-

tially charged at which time the rate automatically shuts down to a safe soaking rate of approximately 10 amperes.

**UTILITY.** A Rect-O-Lyzer quickly pays for itself. Many users have earned the entire cost of the unit in less than six months. It eliminates rental batteries and does away with the unpleasant job of removing and installing batteries. Rect-O-Lyzer may be used to fully charge a battery in about one hour, or substantially charge it while washing or greasing the car in approximately one-half hour. It is an excellent battery salesman as it demonstrates to the car owner the exact condition of his battery and informs him when his battery is no longer reliably serviceable.

### Specifications and Price Data on Model 90 RECT-O-LYZR

Cat. No.	Voltage	Cyc.	Height	Width	Depth	Ship. Wt.	Suggested Price to User
F 10	110	60-50	37"	27"	17½"	220	<del>\$210.00</del>
F 20	220	60-50	37"	27"	17½"	220	<del>\$210.00</del>

A. C. cord is supplied whenever War Production Board Regulations do not prohibit our doing so. D. C. leads, seven feet long, are standard equipment. (Price Includes 4 Bulbs 20 Ampere Size).



# PRICE LIST *Handy* BATTERY CHARGERS

Prices DO NOT Include Bulb. Addition for 6 Ampere Bulb—\$5.00 15 Ampere Bulb—\$10.00

Four Bulbs—20 ampere size included in price of Fast Charger. Extra Bulb 20 ampere each \$15.00

TYPE OF CHARGER	115 Volt 50 and 60 Cycles	115/230 Volt Interchangeable		115 Volt	115/230 Volt Inter- change- able	WEIGHT 115 Volt Units		MEASURE- MENTS IN INCHES	
		50-60 Cyc.	60 Cyc.			25, 30 or 40 Cycle	NET		SHIPPING
<b>WALL TYPE:</b>									
F1, 6 Ampere.....	\$14.00					20	22	9 x 9 x 6	
F6, 6 Ampere.....	24.00	\$30.00	\$27.00	\$34.00	\$44.00	36	40	10 x13 x10½	
F12, 6 Ampere.....	28.00	36.00	33.00	41.50	51.50	39	42	10 x13 x10½	
F6-12, 6-12 Ampere.....		50.00						13 x16 x10	
F12-24, 6-12 Ampere.....	69.00	75.00						16 x16 x11	
<b>*FAST CHARGER:</b>									
F10, 110 Volt or F20, 220 Volt.....		**240.00				190	220	21½x38 x18	
<b>BATTERY TESTERS:</b>									
LT-1, Cell Tester.....	8.50					1½	2	10 x 6 x 3½	
T-2, Cell Tester.....	5.25					1¼	1¾	10 x 6 x 2½	

\* Price includes bulbs. \*\* Single voltage—Not interchangeable.

All 115 volt chargers, except models F1, F10, are of the auto-transformer type. Model F1, 115/230 volt, and chargers wound for voltage of 150 or higher have two coil insulated transformers.

## DIRECT CURRENT CHARGERS FOR OPERATION FROM 115 VOLT D. C. CIRCUIT

F6 to charge 1 to 6 batteries at a rate of 6 amperes or less — ~~\$82.00~~

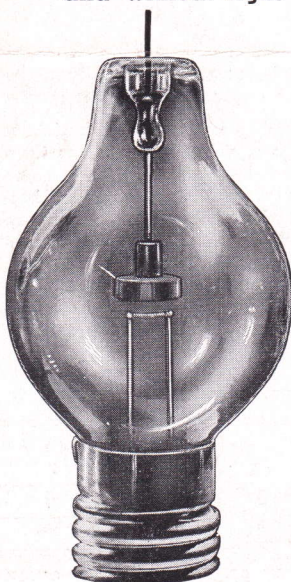
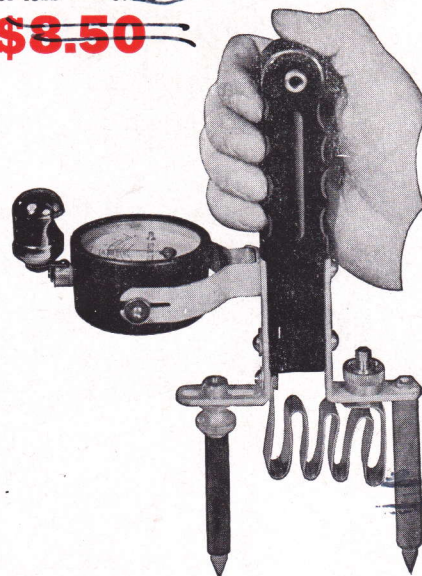
F12 to charge 1 to 12 batteries at a rate of 6 amperes or less — ~~\$7.50~~

## DIAL-LITE CELL TESTER MODEL LT-1 — ~~\$8.50~~

QUICKLY AND ACCURATELY CHECKS ANY STORAGE BATTERY

1. High grade precision built MOVING COIL METER which gives accurate reading. Meter is large—two and one half inches. It turns in its support to any angle for easy reading.
2. Dial is easily read. It is LARGE, has LONG SCALE, and is colored.
3. Dial is LIGHTED when prongs make connection to battery posts. It is easily read in dark places.
4. Descriptive scale markings enable the car owner to see for himself the exact condition of his battery.
5. SPECIAL LOAD METAL. Heat will not change its resistance. Draws approximately 200 amperes from cell under test, approximately starter load.
6. LOAD SWITCH makes this tester actually TWO INSTRUMENTS; a cell tester and a regular voltmeter for determining the "end of charge" for batteries on the line.
7. ADJUSTABLE PRODS to fit the terminals on ANY BATTERY. One prod can be moved in a specially designed slotted holder to obtain proper spacing to test batteries with cells mounted lengthwise.

Model T2—with moving vane voltmeter  
and without light for dial..... ~~\$5.25~~



## *Handy* ARGON GAS TYPE RECTIFIER CHARGER BULBS

GUARANTEED 1200 HOURS  
Against Electrical and Mechanical Defects

Six Amperes - - - Type G-6 - - ~~\$5.00~~  
Fifteen Amperes - Type G-15 - ~~\$10.00~~

For use in all types and makes of Battery Chargers

We do not hesitate to offer "HANDY" battery chargers with our TWO-YEAR Guarantee against defects in material and workmanship, because we have taken every precaution to insure "HANDY" users of LONG AND TROUBLE-FREE SERVICE.

We use only the best materials available.

We employ only skilled workmen in the manufacture of "HANDY" chargers, many of which have been with us since the inception of the Baldor Electric Co., in 1920.

We maintain a competent engineering force to constantly check and improve our products.

A guarantee is only as good as the company behind it, so we add that the Baldor Electric Co. has been making quality electrical apparatus since 1920. It is well rated in Dun and Bradstreet. It occupies three well kept buildings.

BE SAFE ORDER — HANDY